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Transmission power control method for CDMA system - controlling power in accordance with ratio of received signal level of desired wave to power from other communicators

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Patent Family (14 patents, 10 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 682418	A2	19951115	EP 1995303222	A	19950512	199550	B
CA 2149095	A	19951113	CA 2149095	A	19950510	199609	E
JP 8032515	A	19960202	JP 199577937	A	19950403	199615	E
US 5566165	A	19961015	US 1995439302	A	19950511	199647	E
CN 1126930	A	19960717	CN 1995105384	A	19950511	199749	E
CA 2149095	C	19980804	CA 2149095	A	19950510	199842	E
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CN 1296345	A	20010523	CN 1995105384	A	19950511	200154	E
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DE 69533818	E	20050105	DE 69533818	A	19950512	200505	E
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			EP 1995303222	A	19950512		
CN 1187908	C	20050202	CN 2000125988	A	19950511	200622	E

Priority Applications (no., kind, date): EP 1995303222 A 19950512; JP 199498816 A 19940512; JP 199577937 A 19950403

Patent Details

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EP 682418	A2	EN	23	12		
Regional Designated States,Original	DE FR GB IT SE					
CA 2149095	A	EN				
JP 8032515	A	JA	12			
US 5566165	A	EN	21	12		

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JP 2993554	B2	JA	12		Previously issued patent	JP 08032515
CN 1296345	A	ZH			Division of application	CN 1995105384
EP 682418	B1	EN				
Regional Designated States,Original	DE FR GB IT SE					
DE 69533818	E	DE			Application	EP 1995303222
					Based on OPI patent	EP 682418
DE 69533818	T2	DE			Application	EP 1995303222
					Based on OPI patent	EP 682418

Alerting Abstract EP A2

The method involves calculating, at a base station, a first actual SIR (Signal-to-Interference Ratio). This is defined as a ratio of received power of a desired signal sent from a mobile station with which the base station is communicating to a sum of interference power and thermal noise power from other stations. Next it is decided at the base station whether the actual SIR is greater than a reference SIR which satisfies a predetermined communication quality. One or more transmission power control bits are formed based on the result of the deciding step.

The transmission power control bits are periodically inserted into a forward frame. Tentative reverse transmission power is calculated. Reverse transmission power is then decided. Finally a signal is transmitted from the mobile station to the base station at the reverse transmission power.

ADVANTAGE - Prevents transmission power from diverging to max. output of transmitter power amplifier.

Title Terms /Index Terms/Additional Words: TRANSMISSION; POWER; CONTROL; METHOD; CDMA; SYSTEM; ACCORD; RATIO; RECEIVE; SIGNAL; LEVEL; WAVE; Code; Division; Multiple; Access

Class Codes

International Patent Classification

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H04B-001/707; H04B-007/005; H04B-007/26; H04J-013/00; H04Q-007/20			Main		"Version 7"
H04B-001/69; H04J-013/02; H04Q-007/32; H04Q-007/36			Secondary		"Version 7"

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